

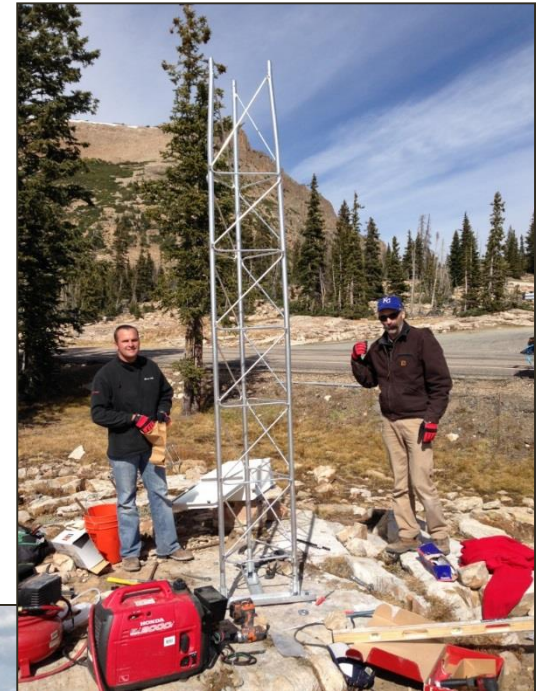
Traffic Management Division

Accomplishments and Needs Report

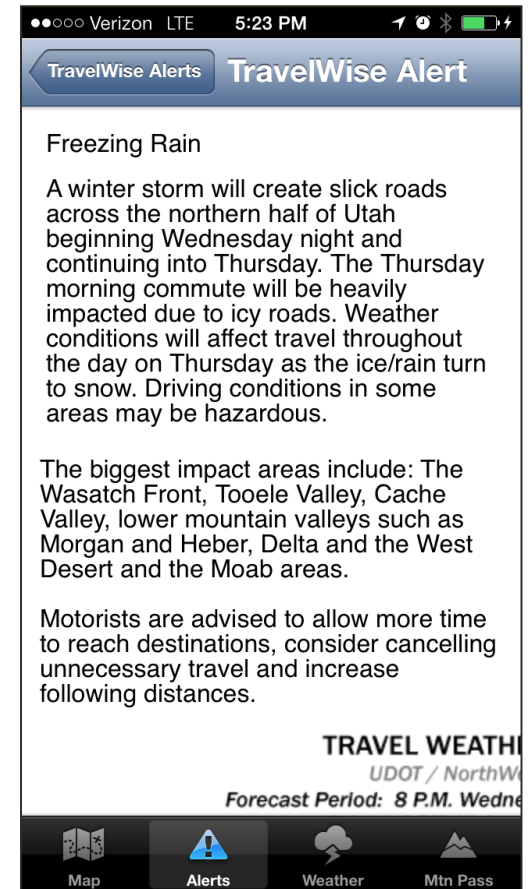
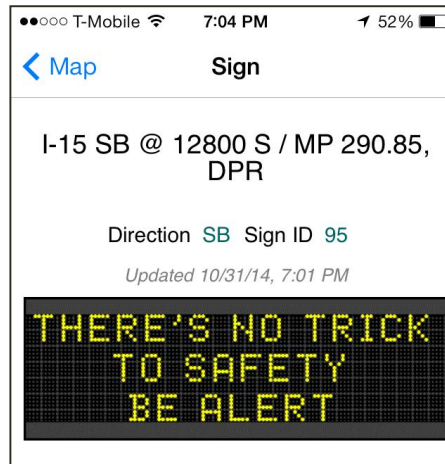
Report to the Utah Transportation Commission
December 5, 2014

Rob Clayton, P.E., PTOE
Director of Traffic Management

ATMS Deployment



Traveler Information

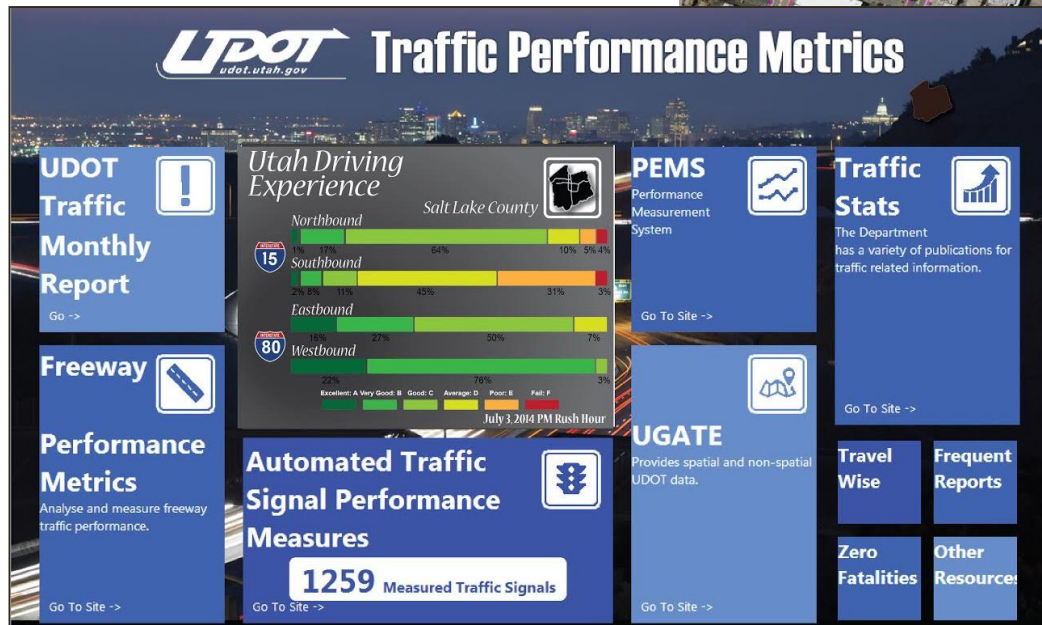


ATMS Maintenance



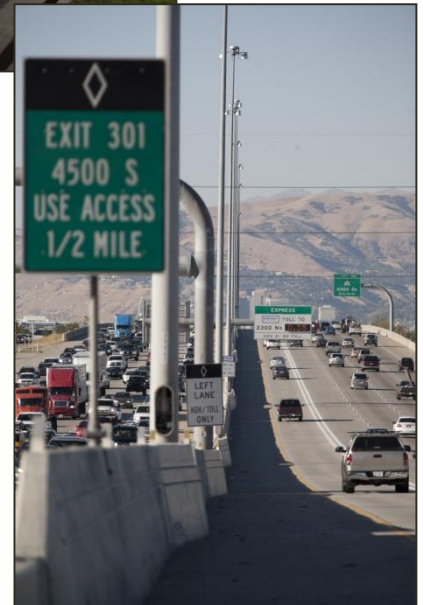
Traffic Operations Analysis & Reporting

FREE RIGHT + 3 NB+ 3SB THROUGH LANES
ST. GEORGE BLVD.



<http://udottraffic.utah.gov/performancemetrics>

Control Room, Freeway and Weather Operations



Traffic Signal Operations



How to catch the 'green wave'

By Jed Boal and Candice Madsen

Updated - November 11th, 2014 @ 11:06pm



Jed Boal



Candice Madsen

5 Comments

Post or read comments

SALT LAKE CITY — Ask Utah drivers about coordination of traffic lights and you'll get an earful. It's been a big issue for a lot of cities all over the state: idling cars waste time and create more air pollution.

Utah is one of only two states in the country that can track real-time traffic signal performance — so traffic operators know the speed drivers should travel if they want to see more green on their commute.

"The closest thing we have to a magic speed is the speed limit," said Mark Taylor, traffic signal operations engineer for the Utah Department of Transportation.



The Traffic Signal Performance Measures Team with UDOT/DTS – Innovation and Efficiency

Recipient of a 2014 Governor's Award for Excellence

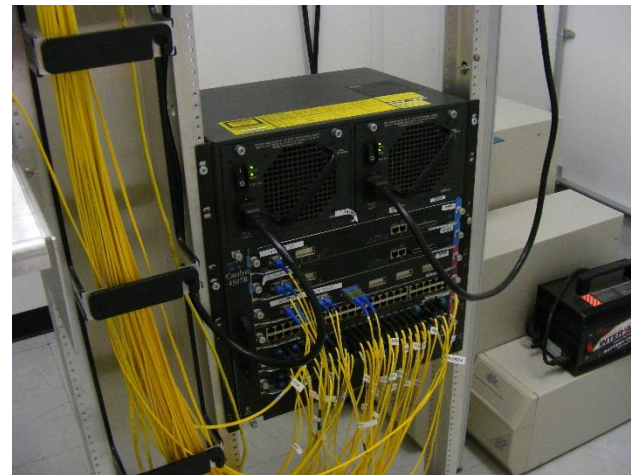
In 2011, UDOT senior leaders challenged the traffic signal program to be "World-Class," knowing the large return on investment that improved signal operations have on delay, safety and air quality. Performance measurement was a significant barrier to World-Class signal operations because data is historically labor intensive and cost prohibitive. Without effective performance measurement, UDOT struggled to answer key questions:



2015 / 2016 Initiatives

- Managed Freeways Study
- Traffic performance measures dashboard
- ATMS device asset management (5 year plan)
- Wrong-way detection on urban freeways
- Implementation of new statewide traffic signal control software
- Connected Vehicle deployment (UDOT/UTA collaboration)
- Next generation control room operations

Fiber hub switch plan



Upgrade and maintenance plan for Fiber Hub Switches:

- 5-yr plan for all 43 hub switches
- Increase data carrying capacity by a factor of 10
(prepare for streaming video and Connected Vehicle)

Weather Ops Enhancements



Enhanced services:

- Maintenance of growing # of RWIS stations
- Weather operations support for Traveler Information
- Expanded forecasting support for maintenance sheds



